

Biologisk-prosessindustriell dataanalyse

Revolverconf 2025-1

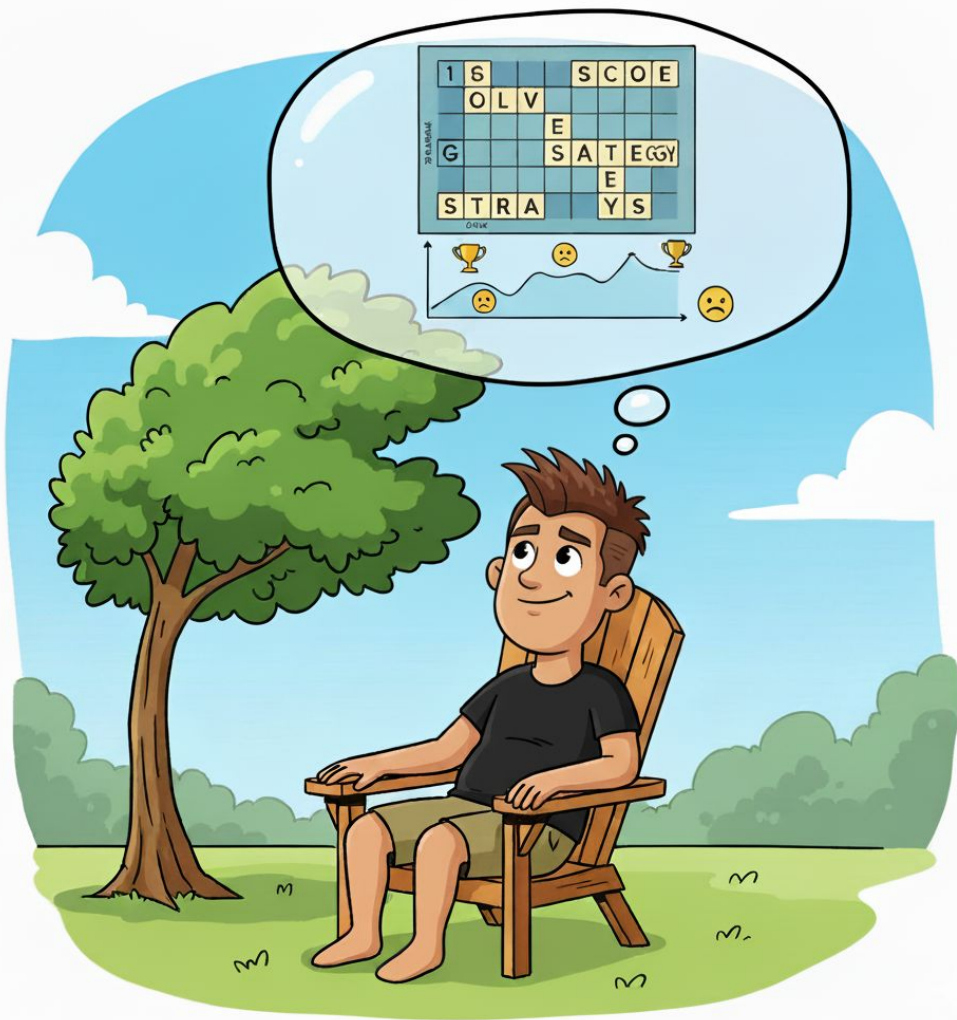
Skill rating

i 2217



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Unstructured Data



P&IDs



PDFs and engineering docs



Images and models



Simulators



Time series



SCADA, IoT

Structured Data



CMMS



ERP



HRM



CRM



Tabular Data



Other IT sources

Cognite Atlas AI™

Industrial Knowledge Graph

Seamless Data Onboarding

AI-Powered CONTEXTualization

Dynamic Knowledge Graph

Core Data Model



Industrial Tools

Industrial Canvas

Search

Charts

Copilot

Field Operations

Robotics

Maintenance

Cognite Data Fusion®

Solutions

AI-powered Data exploration and analytics

Transformative Field Operations

Advanced Troubleshooting

Data-Driven Turnaround Planning

Production Optimization

Customer/Partner-Led Solutions



Cognite Success Tracks



Steg 1: Snakke med Wordfeud!

<https://github.com/leonplanken/Python-Wordfeud-API>

Sidespor: Gøy med AI!

“Hei Claude! Jeg har klonet denne gamle greien her som jeg fant på internett, kan du teste at APIet faktisk virker?”

“Klart det! Lager et testscript til deg, jeg!”

“Fint, kjør på!”

Excellent! 💎💎 The API is working perfectly! Here's what we successfully tested:

✓ All Tests Passed Successfully!

What Worked:

1. ✓ **Authentication** - Your login credentials work perfectly
 - Session ID: `ybwqxjnw6p3a49nwr414lhb2irfzm3jz`
2. ✓ **User Search** - Found user "test" (ID: 33950116)
3. ✓ **Status Retrieval** - Successfully got your user status showing:
 - 7 active games
 - No pending invites
 - No random requests
4. ✓ **Game Management** - Successfully retrieved all 7 of your games
5. ✓ **Random Game Creation** - Successfully created a new random game invitation:
 - Request ID: 1893725771
 - Board type: Random (1)
 - Ruleset: Dutch (2)

Summary:

The Python Wordfeud API is **fully functional** and working correctly! Your credentials are valid, and all the core API features are working as expected. You have:

- **7 active games** in your account
- **Successfully created a new random game** invitation
- **Full access** to all API functionality

The API client is ready to use for any Wordfeud automation or integration you might want to build. All the basic functionality checks have passed, and the API is communicating properly with the Wordfeud servers.

Litt mer revers-engineering

🔍 Raw Server Response Analysis

Key Data Fields Available:

Game Information:

- id: Game ID
- board: Board type (0 = standard, 1054 = random)
- ruleset: Language/ruleset (1 = Norwegian, 2 = Dutch)
- move_count: Number of moves made
- is_running: Game status
- end_game: End game status (1 = normal end, 2 = resigned)
- created: Timestamp when game was created
- updated: Timestamp when game was last updated

Rating Data:

- rating: Your rating after this game
- rating_delta: Rating change for this game

Player Information:

- players: Array of player objects with:
- id: Player ID
- username: Player name
- score: Final score
- position: Position (0 = first, 1 = second)
- is_local: Whether it's you (true) or opponent (false)
- rack: Current tile rack (for active games)

Game State:

- last_move: Details of the last move
- tiles: Array of all tiles placed on the board
- bag_count: Remaining tiles in bag
- pass_count: Number of passes
- is_tutorial: Whether it's a tutorial game

Metadata:

- chat_count: Number of chat messages
- seen_finished: Whether you've seen the finished game
- hidden: Whether game is hidden
- chat_muted: Whether chat is muted

Gaffeltid!

Funksjoner for rating (pluss generell sanity)

Pakketering

Steg 2: Skrive Wordfeud-data til CDF

<https://github.com/mallpunk/wordfeud-cdf>

[Dataset](#)

[Functions](#)

Ta-da!

Dårlig tid: [Wordfeud rating \(basic\)](#)

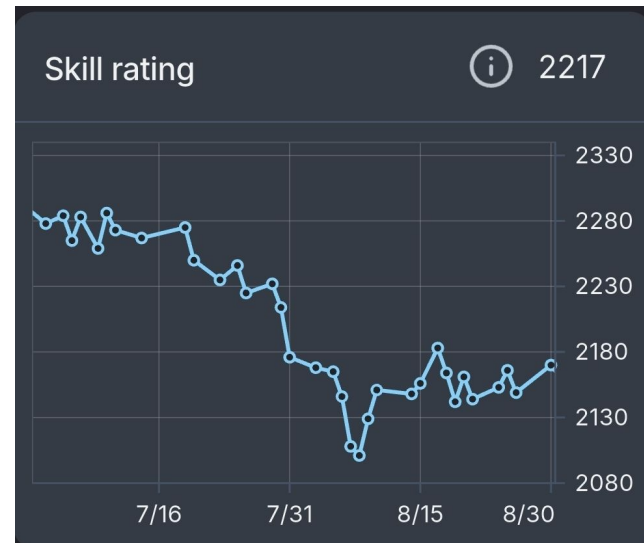
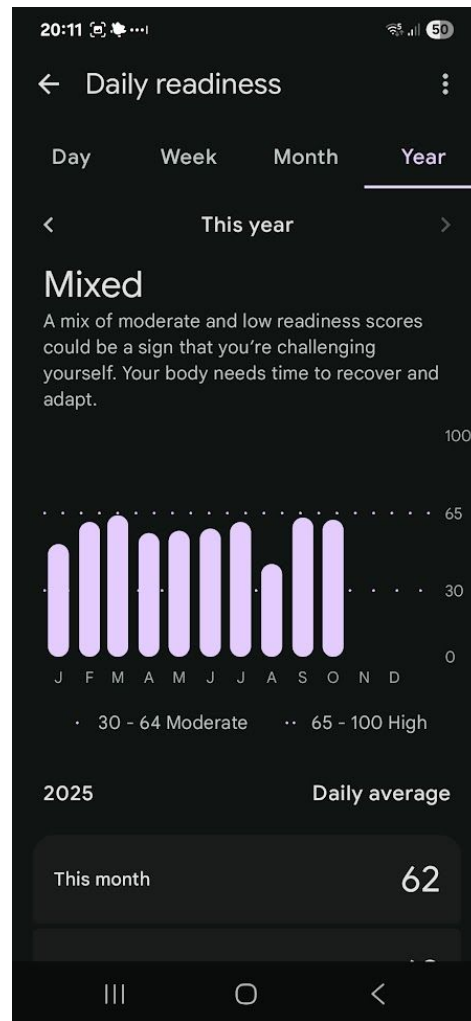
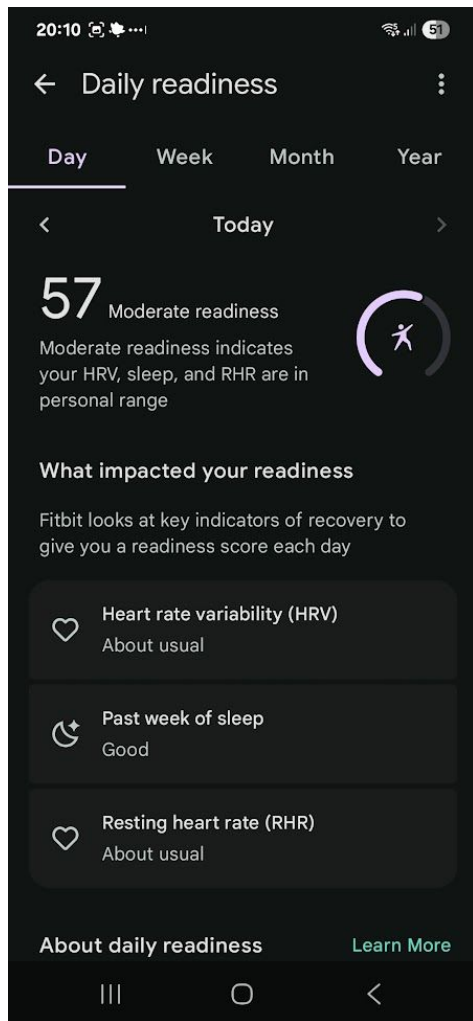
God tid: [Lage Chart i Industrial Tools](#)

Så god tid har vi jaffal ikke: Importere Chart i Canvas, legge til monitorering og alerts, ... (en annen gang)

Steg 3?

Vi har: Wordfeud-rating

Vi mangler: Data på hvor stresset eller sliten jeg er



<https://github.com/cognitedata/fitbit-cdf>



Ut av boksen (nesten)

Chart: [Wordfeud-rating med puls](#)

Steg 3ogenhalv: Fylle på mer Fitbit-data

Plan A: Daily Readiness Score

Problem: Ikke eksponert i [Fitbit-API](#)et

Plan B: HRV + søvnmengde

Problem: HRV er en ny og fancy feature! Eksponert i Fitbit-APIet, men ikke i [python-fitbit](#) som fitbit-cdf er basert på

Profit!

Søvn og HRV og litt ratelimit-optimalisering

Chart: All the things!

Hva har jeg lært?

- Jeg kan ikke data science

(notater, fiks)

Nå har vi wordfeud data i CDF. Det er ikke så interessant i seg selv, det er jo de samme dataene som vises i appen.

Det jeg ville er jo å korrelere med dagsformen. Da trenger vi fitbit-data.

Der er jeg heldig nok til at en kollega allerede har laget en fitbit extractor, som jeg fikk set litt på før sommeren. Den originale versjonen støtter bare pulldata, så la oss først se om det kan brukes til noe nyttig.

Demo: Legg til heartrate. Lag calculations med smooth (simple moving average).

Hva jeg har lært om AI-assistert koding

Yay

- Latterlig mye tidsbesparelse
-

Beware

- Alen har ingen innebyggede “here be dragons”-instinkter. Credentials hardkodet og strødd utover i nye script? Testkode med sideeffekter? Kjør på!
- Alen finner løsninger, ikke problemer. Testen passerer ikke, sier du? Null problem, da sletter vi den!

Vær veldig, veldig, veldig nøye med instruksene

Dobbeltsjekk alt den gjør før du kjører koden

Fitbit API

TODO: hva tilbyr APIet?

<https://dev.fitbit.com/build/reference/>

Det jeg egentlig vil ha: Daily Readiness Score (app screenshot)

Proxy: Sleep + HRV

Steg 1: Utvide fitbit-cdf med støtte for flere datatyper

Suksess: Sleep funker

Problem: HRV er en nyere feature, ikke støttet av python-fitbit som ikke er oppdatert siden 2016

Opsjon 1: Patche python-fitbit

Opsjon 2: Implementere direkte i fitbit-cdf → profit

We are going to create a script that fetches rating data from the Wordfeud API, and uploads it to a third party system called CDF. A similar project already exists in `/home/eira/repos/fitbit-cdf`, using the fitbit API instead of the wordfeud API. The project is going to require some manual setup in CDF, similar to the setup instructions provided in the fitbit-cdf readme file. Please analyze the code and readme file in the fitbit-cdf project and use the information to create an extractor and setup instructions for the new wordfeud-cdf extractor.

Forberede lagring av dataene

Vis/forklar:

- Dataset
- Group - capabilities
- Oppretter tidsserie knyttet til et dataset

Vi skal også laste opp et script og gi noen input-variabler, men det kommer litt seinere